

A-03071 FIGS. 1-35

FIG. 1

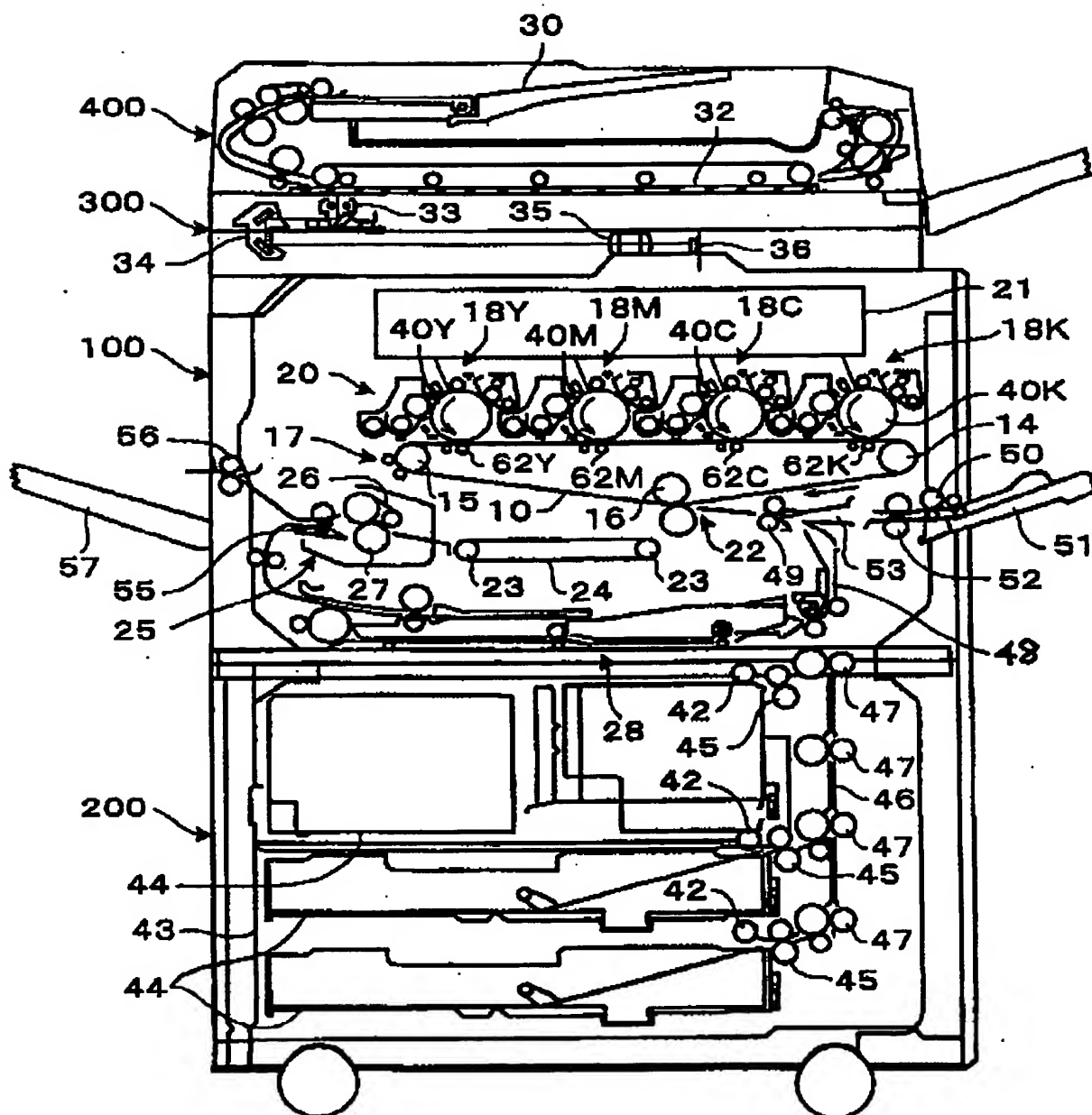


FIG. 2

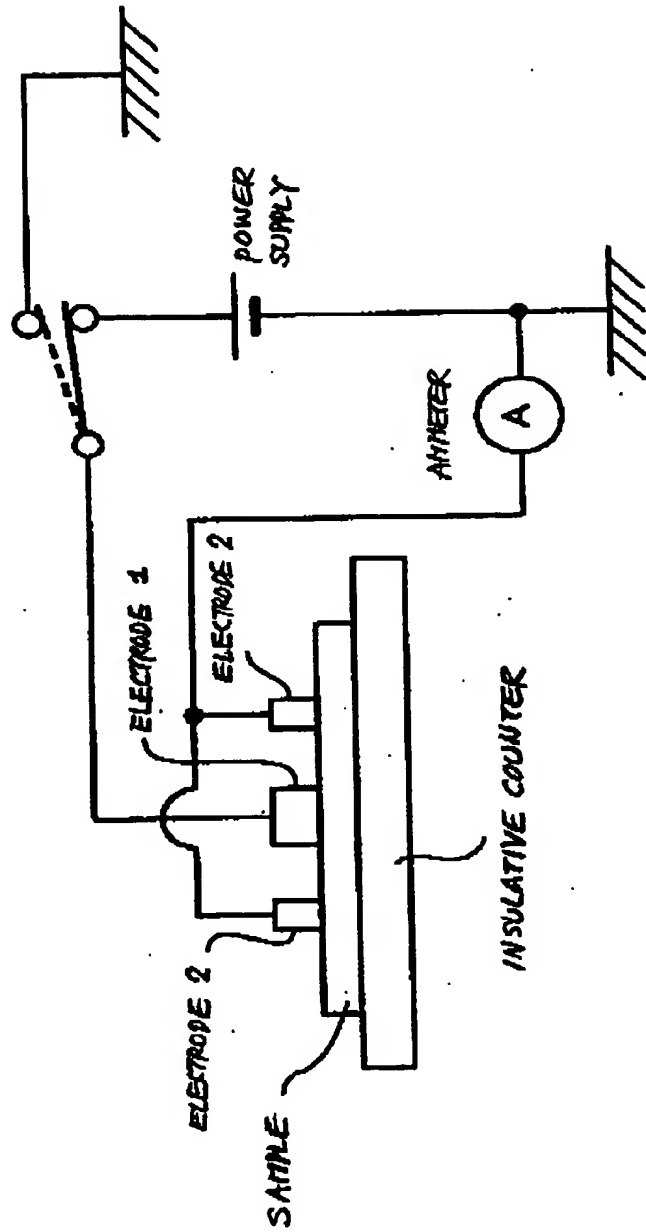


FIG. 3

BELT NO.	SURFACE RESISTIVITY VARIATION IN ABSOLUTE VALUE $\log (\Omega / \square)$	TRANSFERABILITY RANK
1	0.01	5
2	0.28	5
3	0.45	4.5
4	0.60	4
5	0.65	3.5

FIG. 4

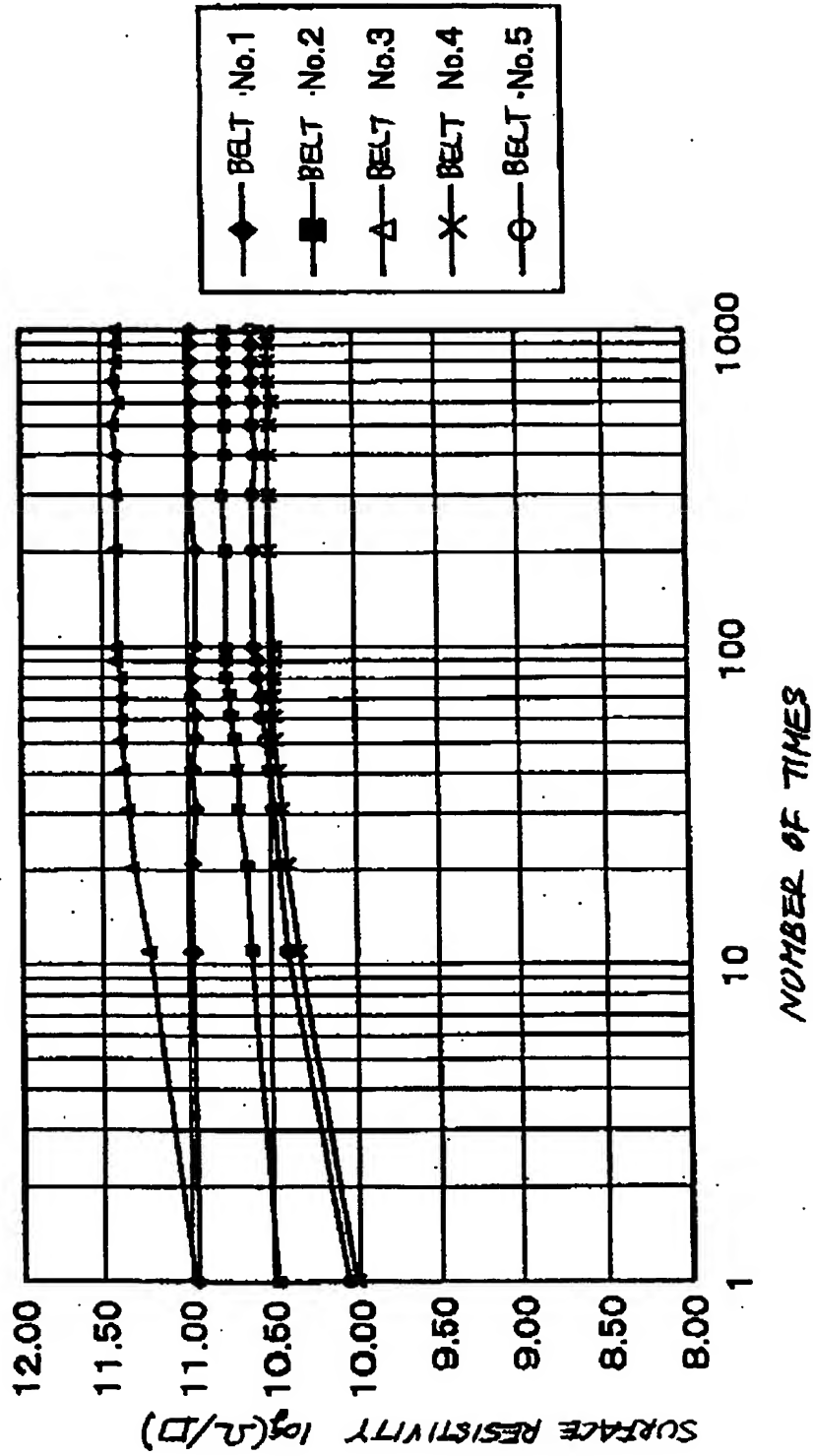


FIG. 5

BELT NO.	SURFACE RESISTIVITY VARIATION IN ABSOLUTE VALUE $\log (\Omega / \square)$	TRANSFERABILITY RANK
6	0. 1	5
7	0. 2 5	5
8	0. 4 4	4. 5
9	0. 4 9	4
10	0. 5 6	3. 5

FIG. 6

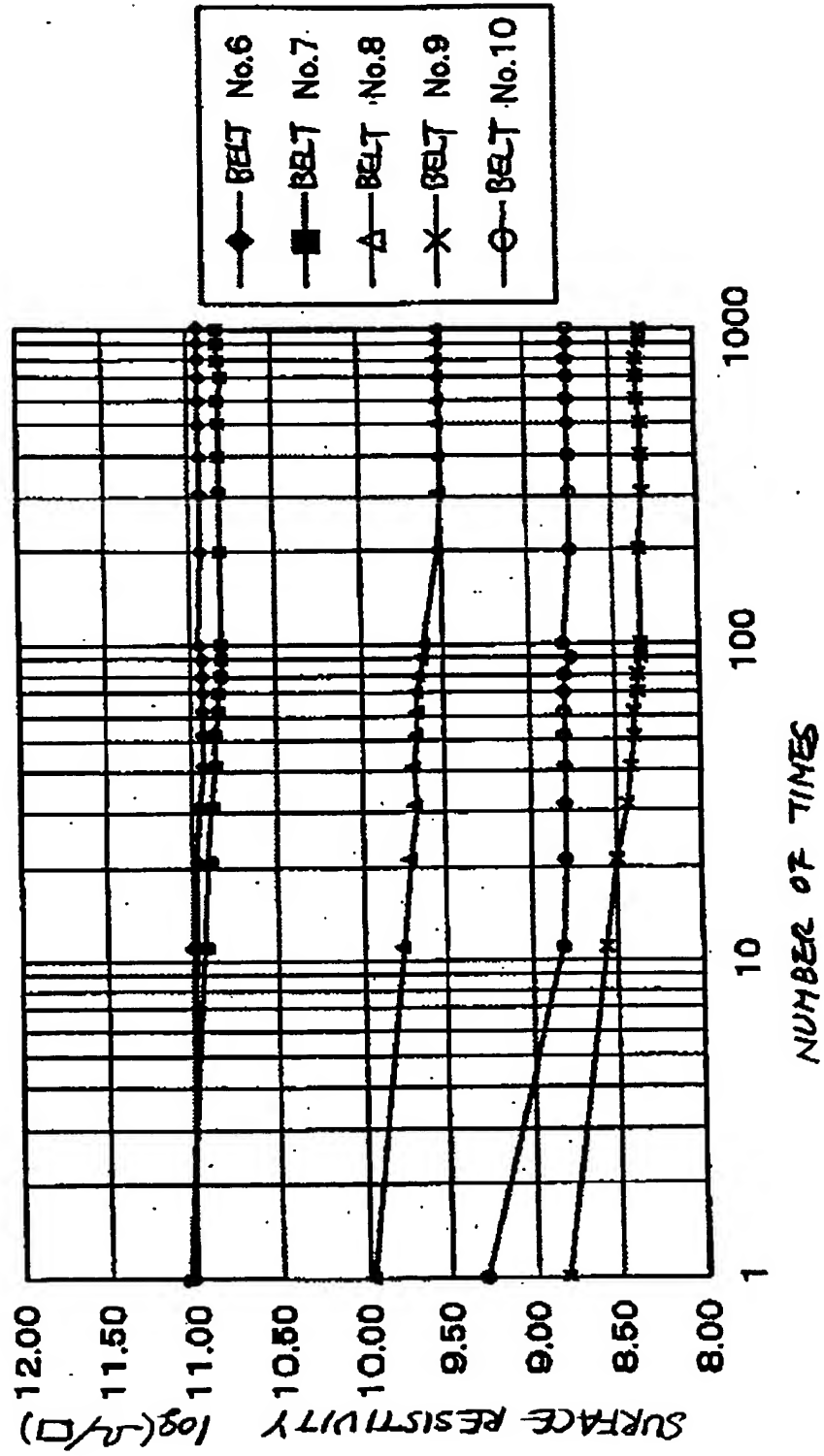


FIG. 7

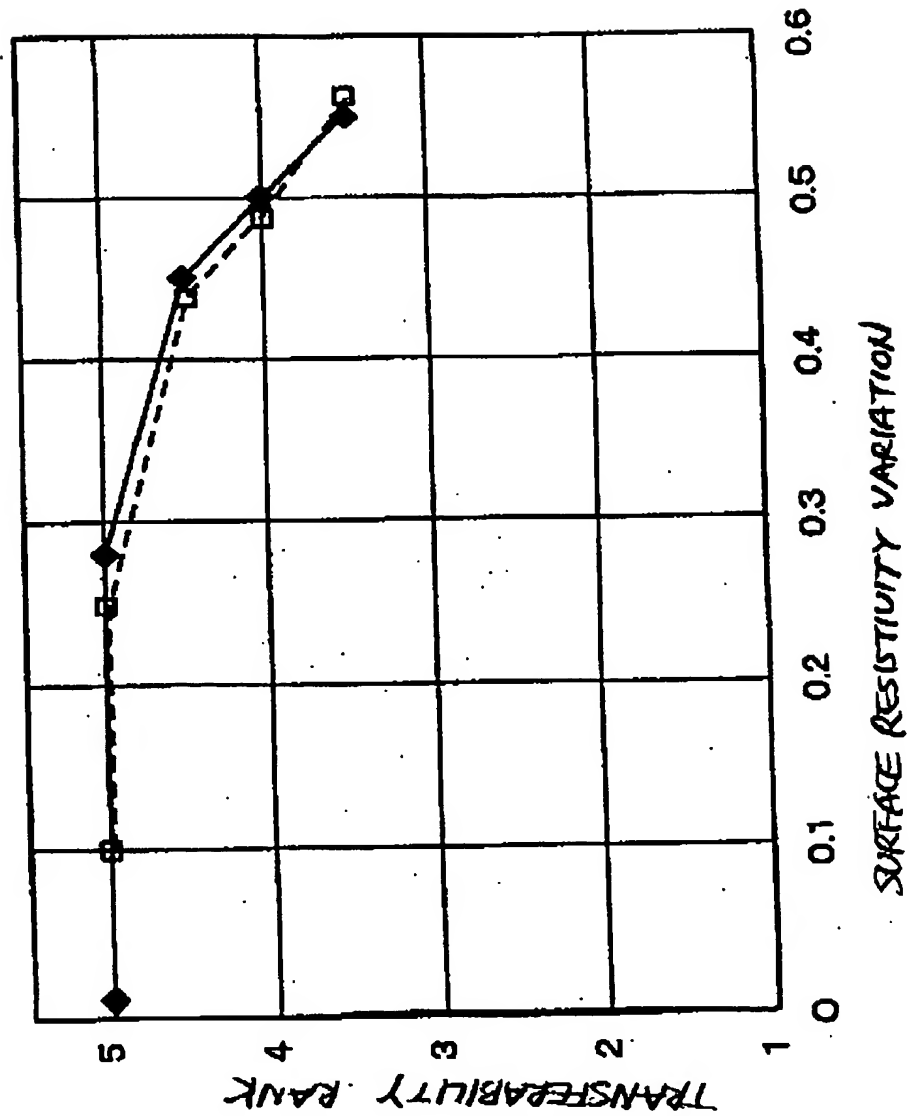


FIG. 8

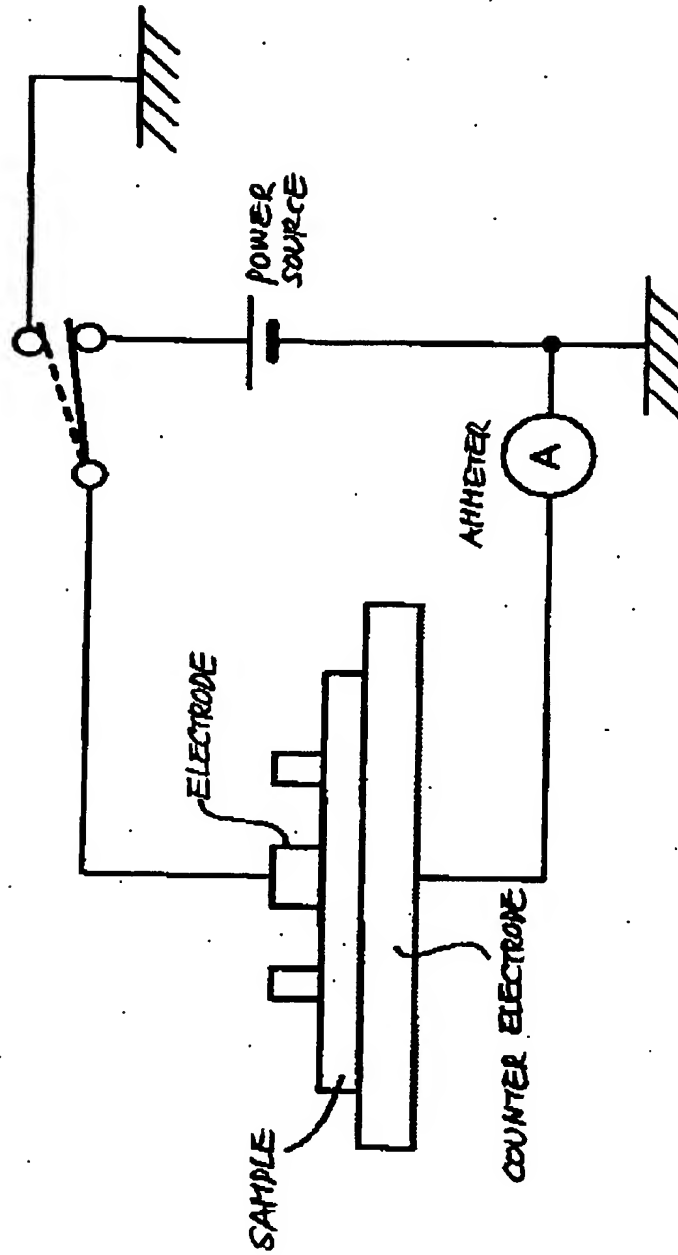




FIG. 9

BELT NO.	VOLUMETRIC RESISTIVITY VARIATION IN ABSOLUTE VALUE log ( $\Omega$ cm)	TRANSFERABILITY RANK
11	0.74	5
12	1.18	5
13	1.79	4.5
14	2.11	4
15	2.80	3.5

FIG. 10

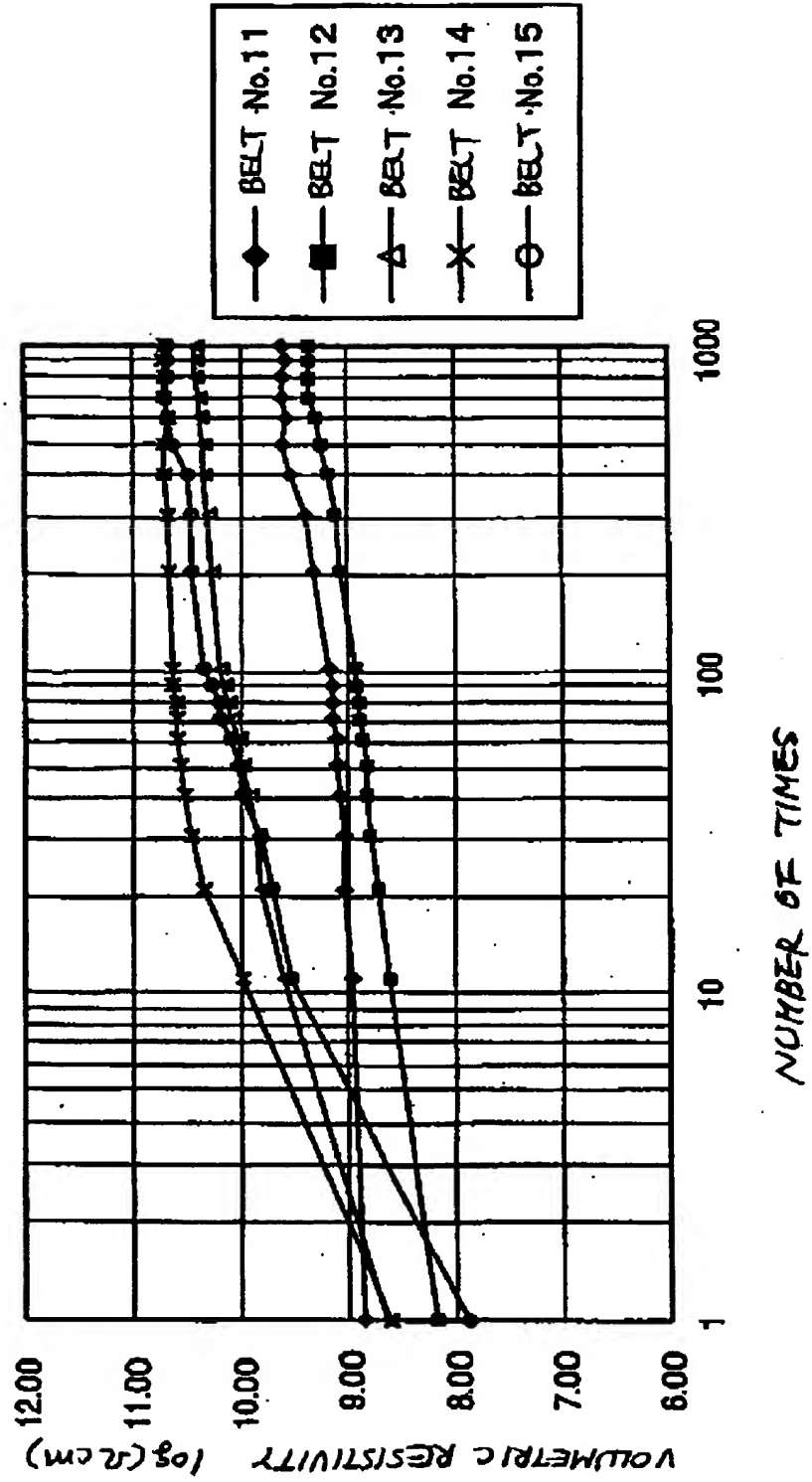


FIG. 11

BELT NO.	VOLUMETRIC RESISTIVITY VARIATION IN ABSOLUTE VALUE $\log (\Omega \text{ cm})$	TRANSFERABILITY RANK
16	0.11	5
17	1.09	5
18	2.08	4
19	2.53	3.5

FIG. 12

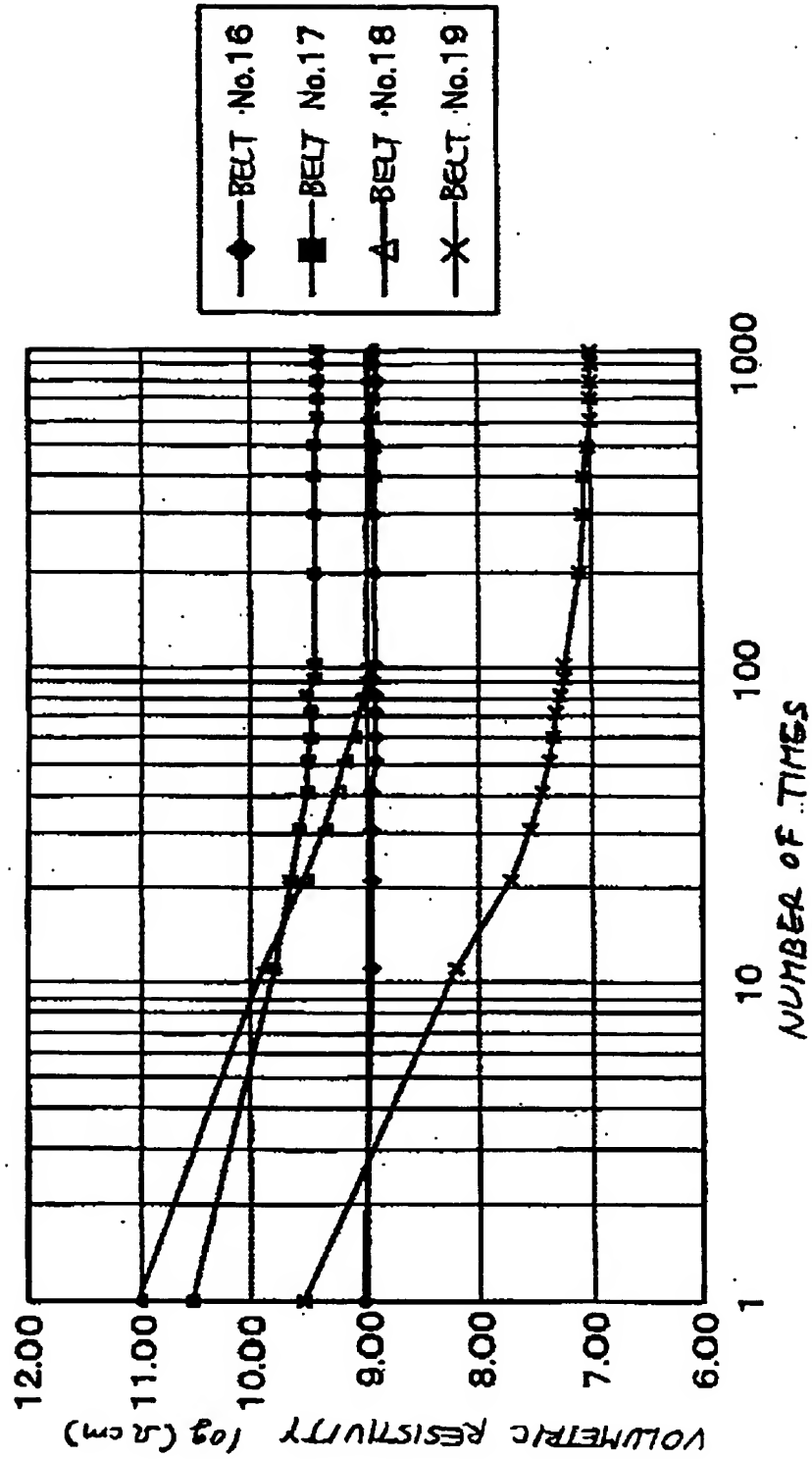


FIG. 13

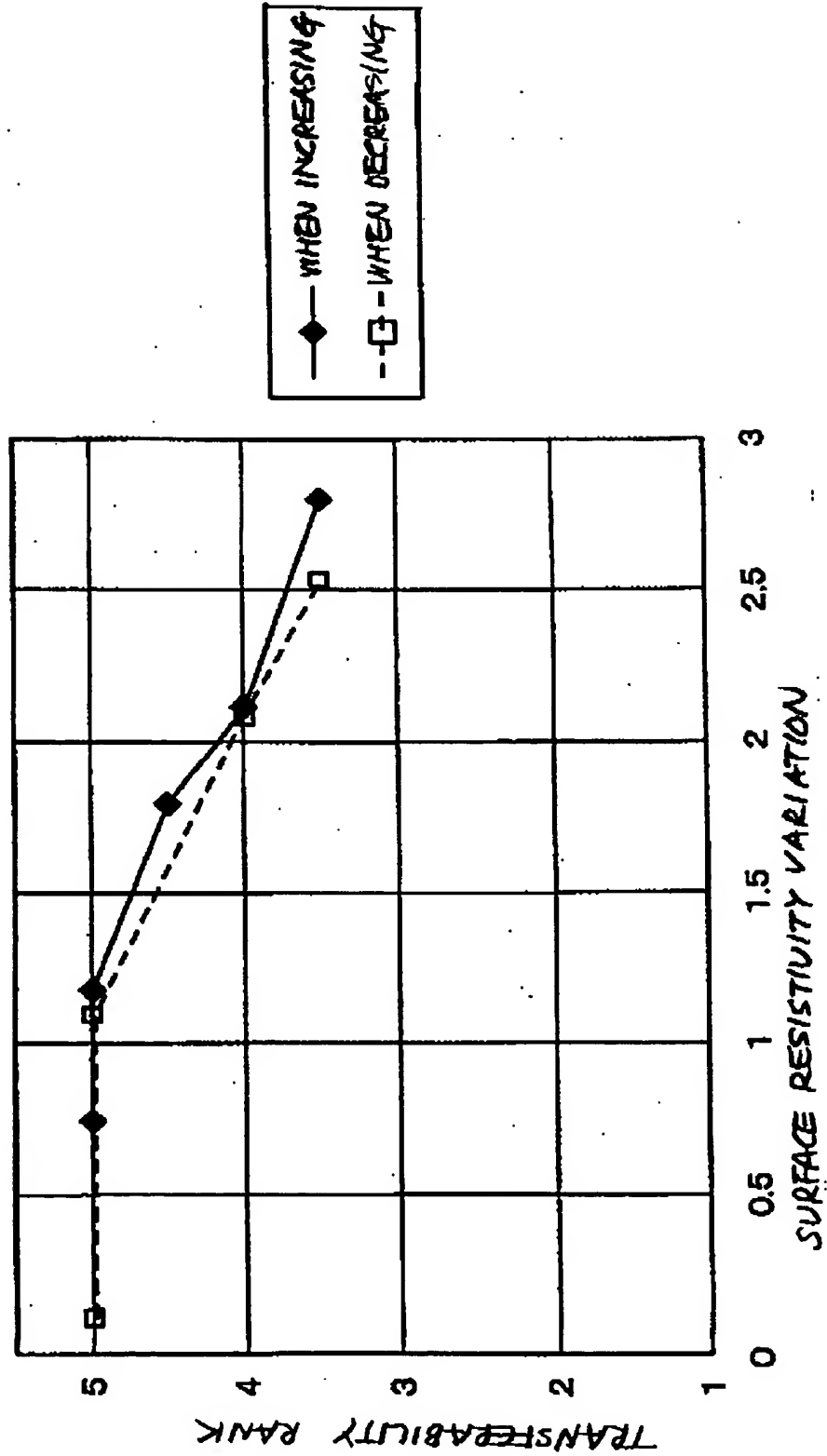


FIG. 14

BELT NO.	BIAS CONTROL	IMAGE AREA RATIO	IMAGE DENSITY
20	CONSTANT VOLTAGE	5%	○
		9.5%	○
	CONSTANT CURRENT	5%	x
		9.5%	○



FIG. 16

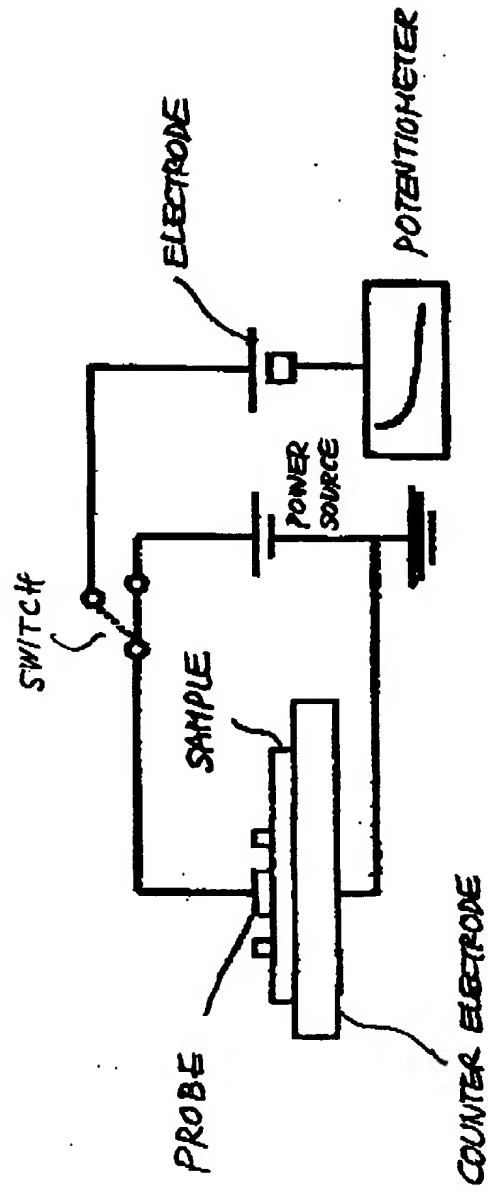




FIG. 17

BELT No.	5- SECOND POTENTIAL [V]	T- SECOND POTENTIAL [V]	IRREGULARITY
1	481	489	X
2	436	467	X
3	207	268	Δ
4	134	171	○
5	151	173	○
6	11	16	○

FIG. 18

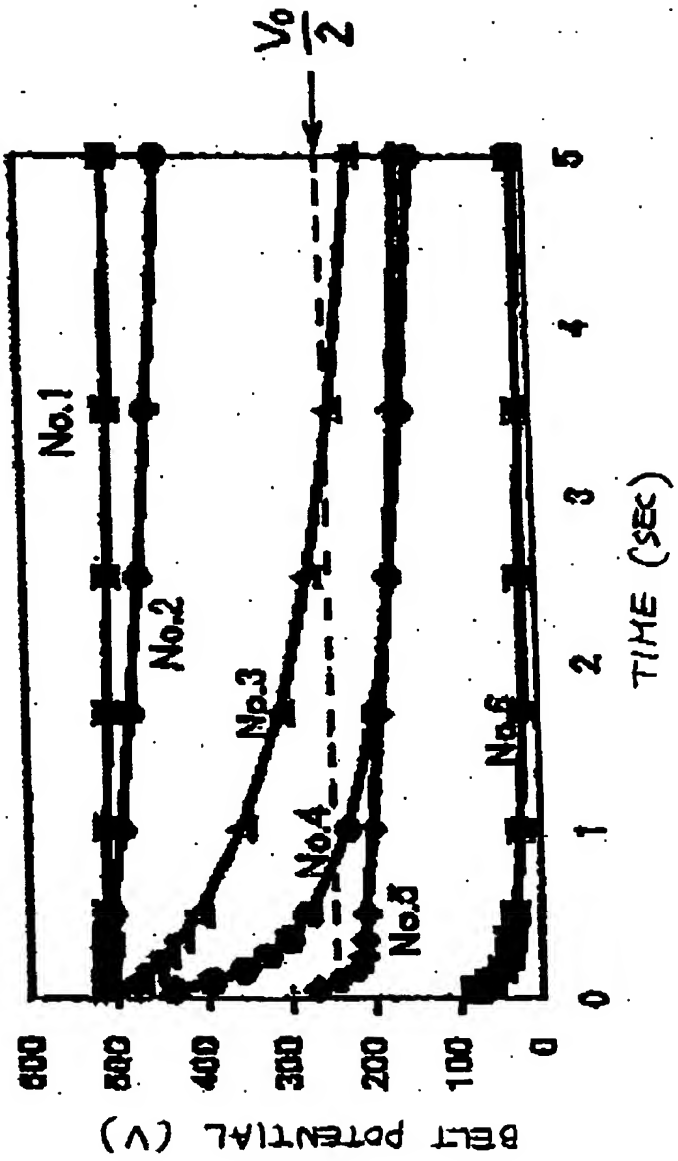


FIG. 19

BELT NO.	INNER SURFACE RESISTIVITY [ $\Omega/\square$ ]	5-SECOND POTENTIAL [V]	T-SECOND POTENTIAL [V]	THICKNESS [ $\mu\text{m}$ ]	TRANSFER RATIO	DISCHARGES MARK
7	$8.90 \times 10^6$	15	20	78.0	X	O
8	$1.22 \times 10^7$	22	32	80.2	$\Delta$	O
9	$1.29 \times 10^8$	20	40	86.0	O	O
10	$1.04 \times 10^9$	481	489	100.5	O	O
11	$2.00 \times 10^9$	35	48	81.6	O	O
12	$9.77 \times 10^9$	183	207	100.2	O	O
13	$1.17 \times 10^{10}$	436	467	79.6	O	O
14	$7.21 \times 10^{11}$	120	162	80.6	O	$\Delta$
15	$5.88 \times 10^{12}$	201	222	112.3	O	X

FIG. 20

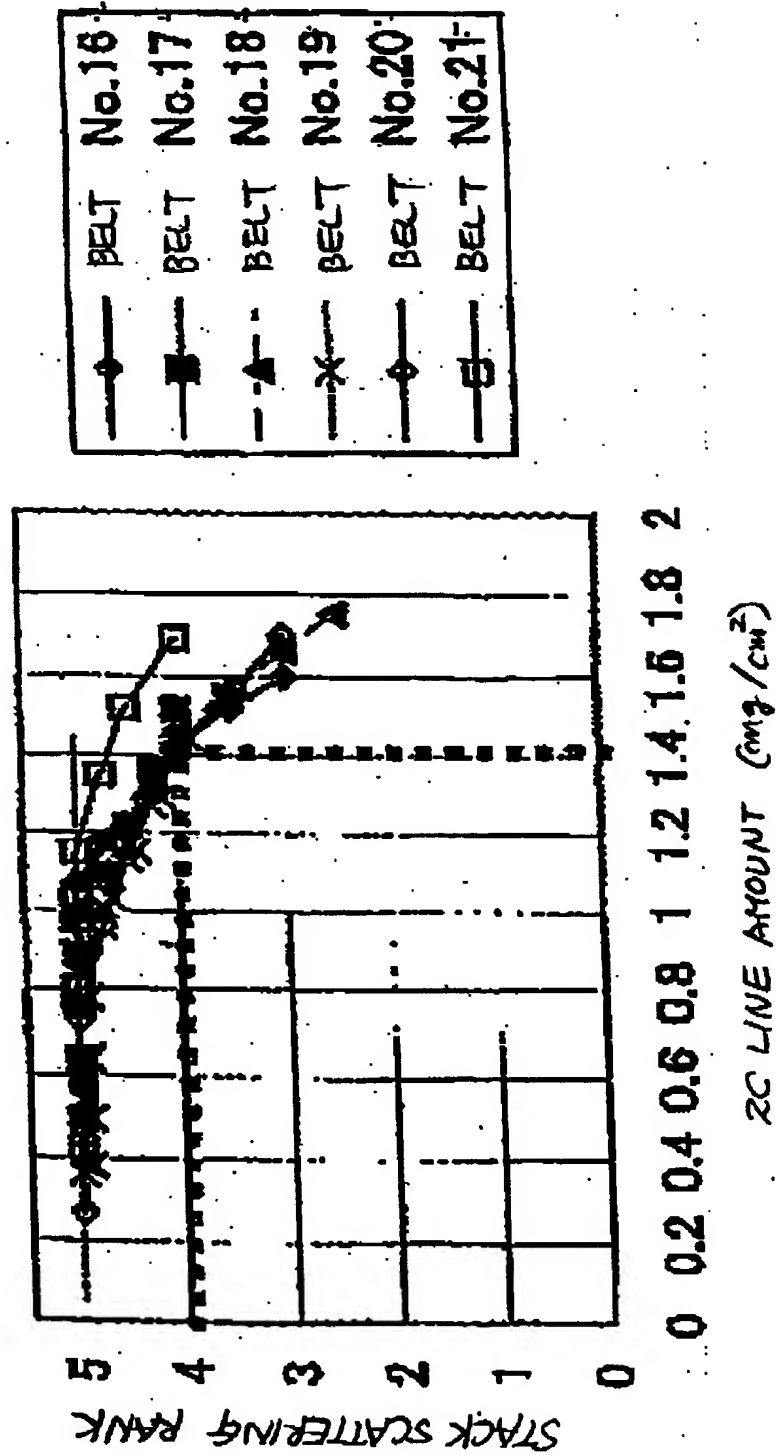


FIG. 21

BELT NO.	INNER SURFACE RESISTIVITY [ $\Omega/\square$ ]	5-SECOND POTENTIAL [V]	T-SECOND POTENTIAL [V]	THICKNESS [ $\mu\text{m}$ ]
16	$1.29 \times 10^8$	20	40	86.0
17	$2.00 \times 10^9$	35	48	81.6
18	$1.17 \times 10^{10}$	88	101	79.6
19	$1.38 \times 10^{11}$	101	135	80.6
20	$9.77 \times 10^9$	183	207	100.2
21	$1.04 \times 10^9$	481	489	100.5

FIG. 22

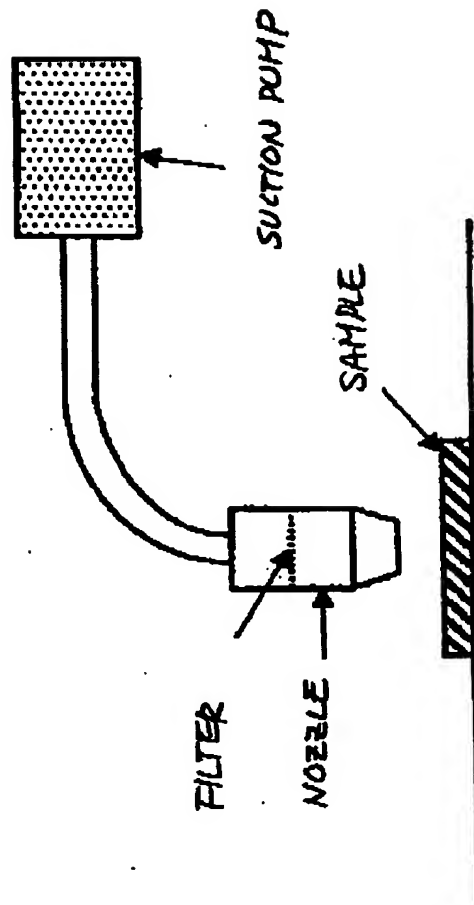


FIG. 23

LINE PORTION

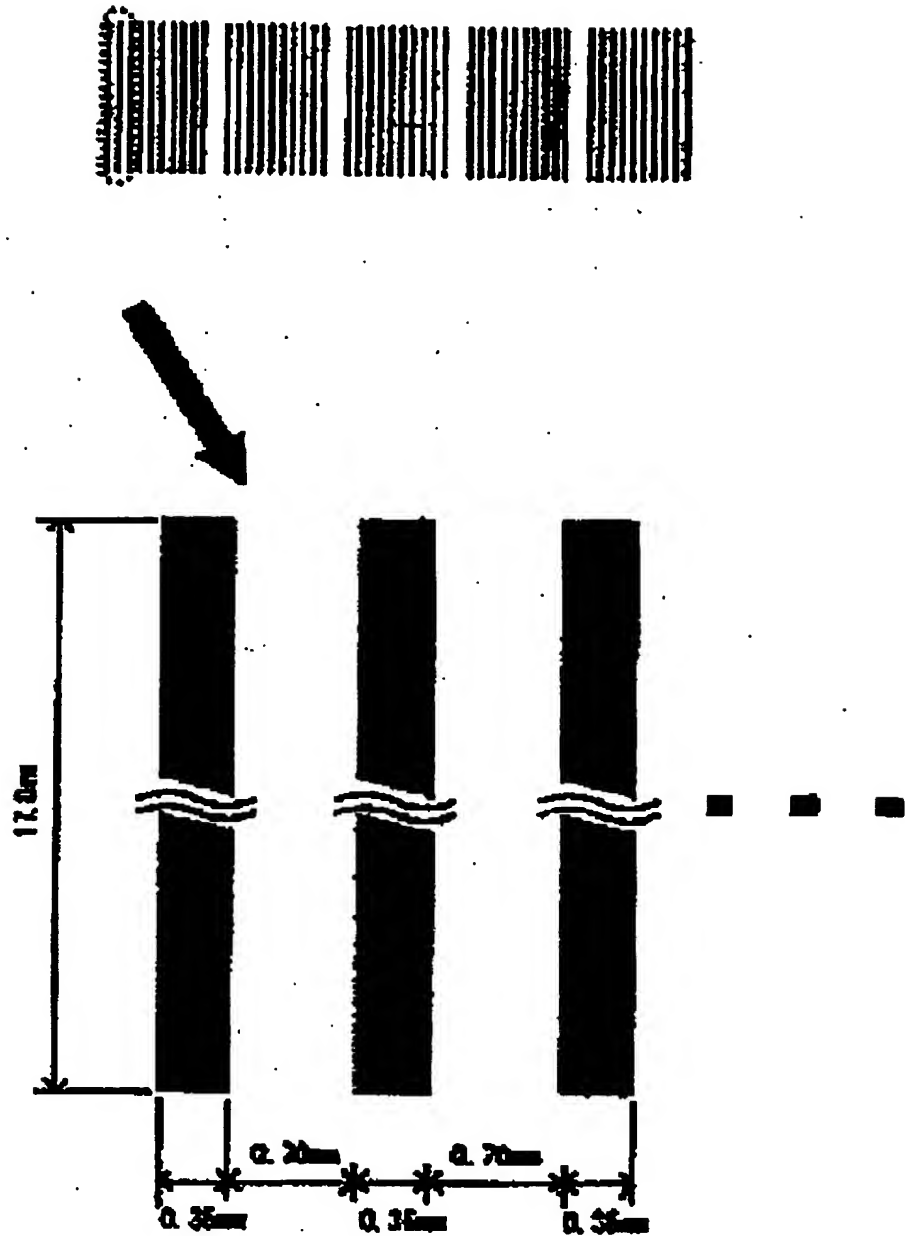


FIG. 24

SOLID PORTION

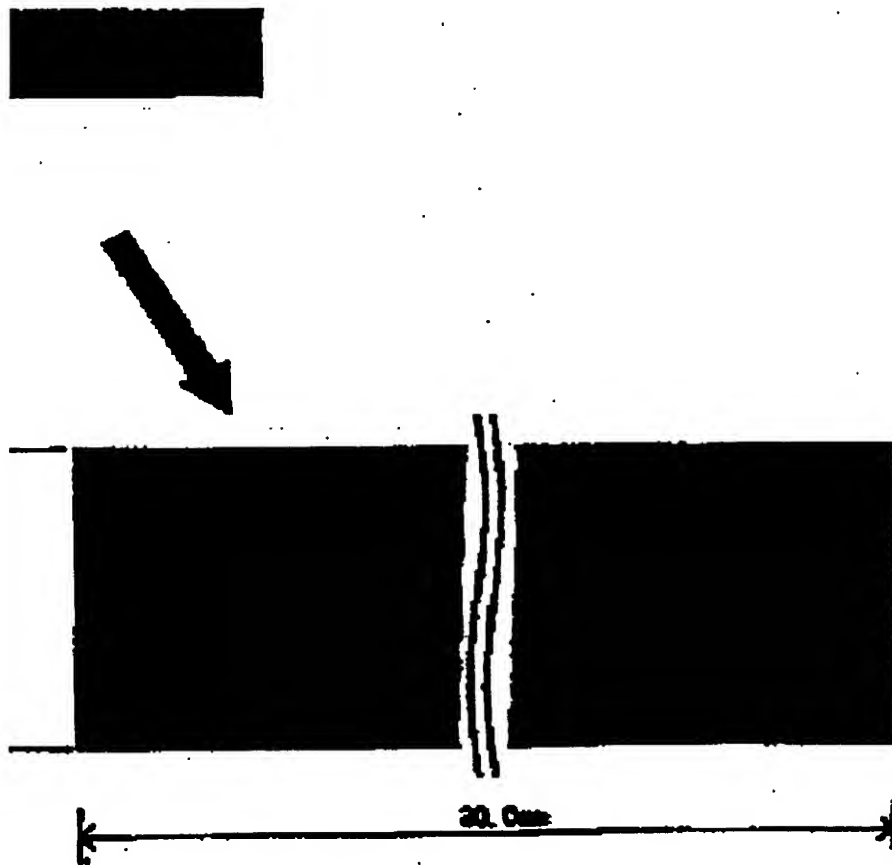




FIG. 25

	BELT NO. 18		BELT NO. 20		BELT NO. 17		BELT NO. 19		BELT NO. 21		BELT NO. 16	
	M/A	STACK SCATTERING	M/A	STACK SCATTERING	M/A	STACK SCATTERING	M/A	STACK SCATTERING	M/A	STACK SCATTERING	M/A	STACK SCATTERING
90%	1.75	25			1.52	4	1.55	3.5				
80%	1.66	3	1.70	3	1.36	4.25	1.43	4	1.69	4	1.69	3
70%	1.57	3.5	1.56	3.5	1.21	4.5	1.27	4.25	1.52	4.5	1.52	3.5
60%	1.46	4	1.41	4	1.09	4.75	1.13	4.5	1.35	4.75	1.42	4
55%	1.34	4.25	1.14	4.5	0.98	5	1.01	4.75	1.15	5	1.30	4.25
50%	1.18	4.75	0.96	4.75	0.89	5	0.89	5	1.03	5	1.22	4.5
40%	1.01	5	0.73	5	0.76	5	0.76	5	0.80	5	1.07	5
30%	0.77	5	0.51	5	0.63	5	0.62	5	0.61	5	0.86	5
25%	0.57	5	0.27	5	0.50	5	0.49	5	0.41	5	0.61	5
20%	0.39	5			0.39		0.39	5				

FIG. 26

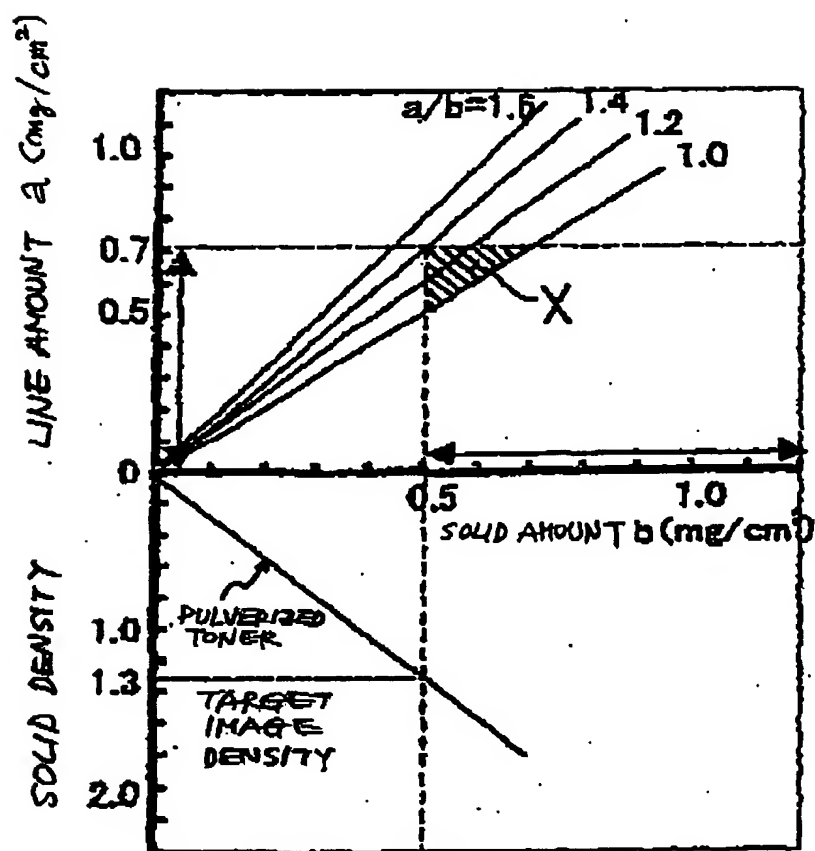


FIG. 27

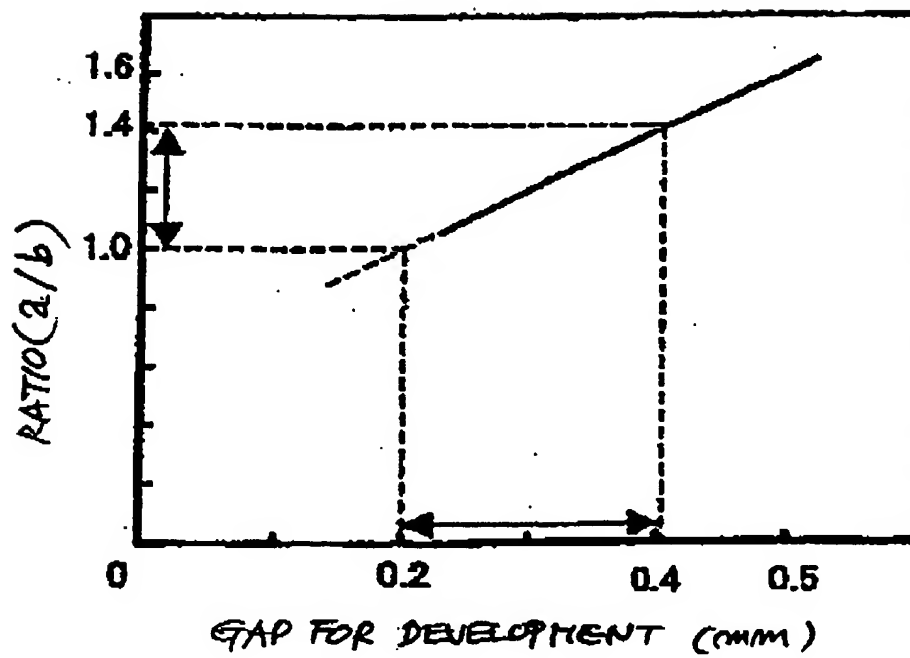


FIG. 28

	GAP	TONER	SOLID DENSITY	SOLID AMOUNT	LINE AMOUNT	RATIO (a/b)	STACK SCATTERING RANK
EX. 5	0.3	POWERIZED	1.31	0.5	0.63	1.22	4.5
CON. EX. 5	0.5	POWERIZED	1.29	0.5	0.79	1.57	3

FIG. 29

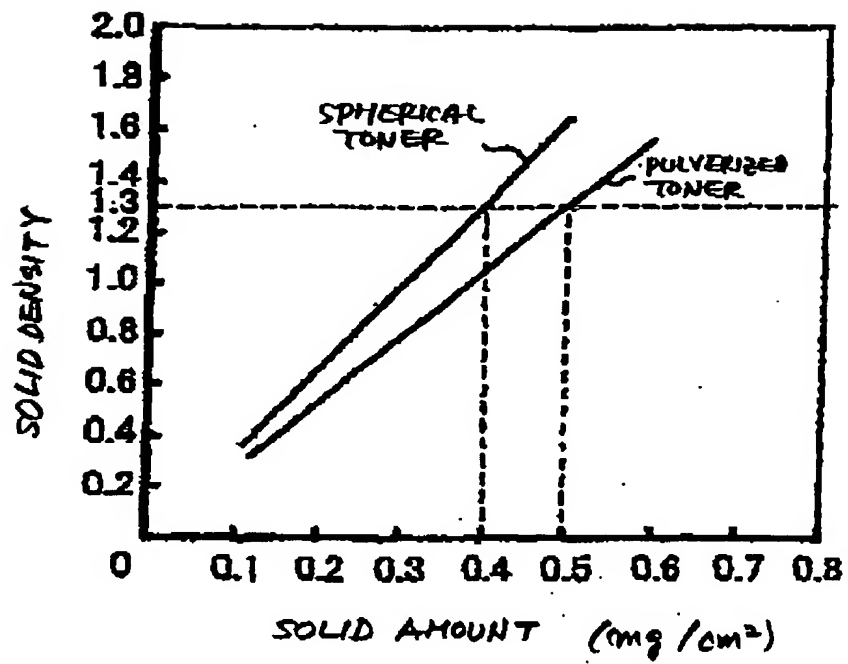


FIG. 30

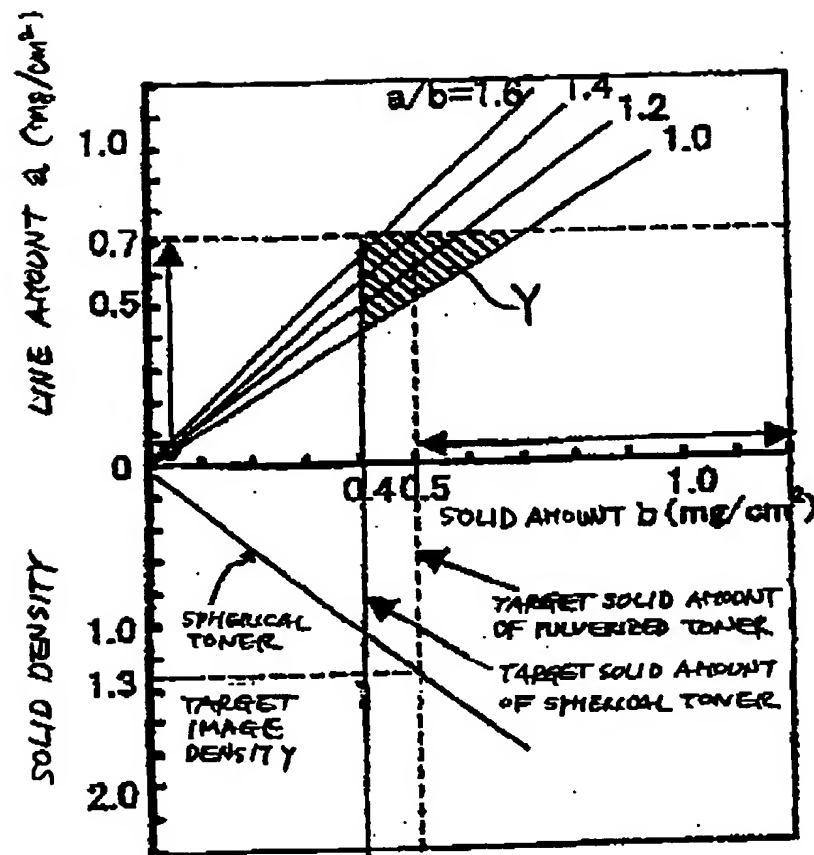


FIG. 31

	GAP	TONER	SOLID DENSITY	SOLID AMOUNT	LINE AMOUNT	RATIO (a/b)	STACK SCATTERING RANK	MISSION RANK
EX. 6	0.4	SPHERICAL	1.31	0.41	0.58	1.42	5	5
CON. EX. 6	0.4	PULVERIZED	1.28	0.48	0.7	1.43	3.5	3

FIG. 32

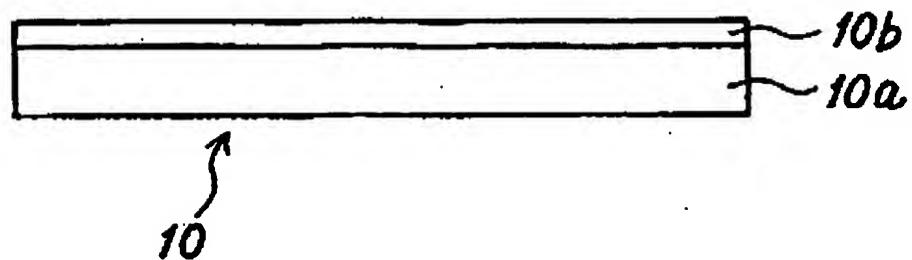


FIG. 33

BELT No.	5-SECOND POTENTIAL [V]	IRREGULARITY	CLEANING
2 2	2 1 2	$\Delta$	X
2 3	2 3 5	$\bigcirc$	$\bigcirc$



FIG. 34

BELT No.	5-SECOND POTENTIAL [V]	T-SECOND POTENTIAL [V]	IRREGULARITY
1	481	495	X
2	436	480	X
3	207	311	$\Delta$
4	134	198	O
5	151	190	O
6	11	16	O

FIG. 35

